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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-2023-03-08-01**	**Date: 11-02-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	08-02-23	
Type of Mix	:	BM (Bituminous Mecadam)	
Date of test	:	08-02-23	

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Authorized Signatory
Quality Manager

End of Report

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Date: 16-03-23

Lab ID	:	**CP-2023-03-14-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	14-03-23
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	14-03-23
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-2023-03-14-01** **Date: 17-03-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 14-03-23

Type of Mix : BC(Bitumenous Concrete)

Date of test : 14-03-23

Type of Binder : 60/70

% of Binder Used : 5.4%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.8 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Date: 17-03-23

Lab ID	:	**CP-2023-03-14-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	14-03-23
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	14-03-23

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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Quallity Manager

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-2023-03-14-01** **Date: 17-03-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 14-03-23

Type of Mix : BC (Bituminous Concrete)

Date of test : 14-03-23

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2023-03-20-01**	**Date: 21-03-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	20-03-23	
Type of Mix	:	BM (Bituminous Macadam) Kaveri Layout-1st A Cross Road	
Date of test	:	20-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	485	484
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	3.4	3.60
7	Average percentage	%	3.50	

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Lab ID : **CP-2023-03-20-01** **Date: 21-03-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.8	92.2	90-100
13.2	147	185	38.1	61.9	56-88
4.75	191	376	77.5	22.5	16-36
2.36	28	404	83.3	16.7	4-19
0.3	40	444	91.5	8.5	2-10
0.075	30	474	97.7	2.3	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	32	32	6.6	93.4	90-100
13.2	152	184	38.0	62.0	56-88
4.75	176	360	74.4	25.6	16-36
2.36	36	396	81.8	18.2	4-19
0.3	40	436	90.1	9.9	2-10
0.075	32	468	96.7	3.3	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2023-03-20-01**	**Date: 21-03-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	20-03-23	
Type of Mix	:	BM (Bituminous Macadam) Kaveri Layout-1st Cross Road	
Date of test	:	20-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484.5	484
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.5	3.60
7	Average percentage	%	3.55	

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Lab ID : CP-2023-03-20-01 **Date: 21-03-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	32	32	6.6	93.4	90-100
13.2	141	173	35.7	64.3	56-88
4.75	184	357	73.7	26.3	16-36
2.36	42	399	82.4	17.6	4-19
0.3	38	437	90.2	9.8	2-10
0.075	28	465	96.0	4.0	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	37	37	7.6	92.4	90-100
13.2	156	193	39.9	60.1	56-88
4.75	170	363	75.0	25.0	16-36
2.36	41	404	83.5	16.5	4-19
0.3	36	440	90.9	9.1	2-10
0.075	26	466	96.3	3.7	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2023-03-21-01**	**Date: 23-03-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	21-03-23	
Type of Mix	:	BM (Bituminous Macadam) Kaveri Layout-1st Cross Road	
Date of test	:	21-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484.5	485
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.5	3.40
7	Average percentage	%	3.45	

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Lab ID : CP-2023-03-21-01 **Date: 23-03-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	37	37	7.6	92.4	90-100
13.2	135	172	35.5	64.5	56-88
4.75	187	359	74.1	25.9	16-36
2.36	46	405	83.6	16.4	4-19
0.3	34	439	90.6	9.4	2-10
0.075	30	469	96.8	3.2	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	40	40	8.2	91.8	90-100
13.2	166	206	42.5	57.5	56-88
4.75	173	379	78.1	21.9	16-36
2.36	46	425	87.6	12.4	4-19
0.3	29	454	93.6	6.4	2-10
0.075	20	474	97.7	2.3	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2023-03-21-01**	**Date: 23-03-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	21-03-23	
Type of Mix	:	BM (Bituminous Macadam) Kaveri Layout-Main Road	
Date of test	:	21-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484.5	485
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.5	3.40
7	Average percentage	%	3.45	

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Lab ID : CP-2023-03-21-01

Date: 23-03-23

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	37	37	7.6	92.4	90-100
13.2	135	172	35.5	64.5	56-88
4.75	187	359	74.1	25.9	16-36
2.36	46	405	83.6	16.4	4-19
0.3	34	439	90.6	9.4	2-10
0.075	30	469	96.8	3.2	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	40	40	8.2	91.8	90-100
13.2	166	206	42.5	57.5	56-88
4.75	173	379	78.1	21.9	16-36
2.36	46	425	87.6	12.4	4-19
0.3	29	454	93.6	6.4	2-10
0.075	20	474	97.7	2.3	0-8

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ನಿರ್ವಾಹಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID :

Project Name : **CP-2023-03-23-01** **Date: 24-03-23**

Agency : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Customer Reference : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Date of Receipt : BBMP/EE/BTP/WO/53/2022-23

Type of Mix : 23-03-23

Date of test : BM (Bituminous Macadam) Defence Layout - 1st stage 2nd cross Road & 4th Cross

: 23-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	483.5	485
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.7	3.40
7	Average percentage	%	3.55	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬಂಗಳೂರು-26

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Lab ID : CP-2023-03-23-01 **Date: 24-03-23**

Weight of Sample : 483.5 Grams

AFTER EXTRACTION(Trail-1)

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	30	30	6.2	93.8	90-100
13.2	141	171	35.4	64.6	56-88
4.75	181	352	72.8	27.2	16-36
2.36	41	393	81.3	18.7	4-19
0.3	51	444	91.8	8.2	2-10
0.075	30	474	98.0	2.0	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	35	35	7.2	92.8	90-100
13.2	170	205	42.3	57.7	56-88
4.75	168	373	76.9	23.1	16-36
2.36	55	428	88.2	11.8	4-19
0.3	32	460	94.8	5.2	2-10
0.075	20	480	99.0	1.0	0-8

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2023-03-24-01**	**Date: 25-03-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	24-03-23	
Type of Mix	:	BM (Bituminous Macadam) 2nd Stage Defence layout, Aruna Enclave Road	
Date of test	:	24-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484	483.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.6	3.70
7	Average percentage	%	3.65	

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Lab ID : CP-2023-03-24-01 Date: 25-03-23

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	34	34	7.0	93.0	90-100
13.2	162	196	40.5	59.5	56-88
4.75	178	374	77.3	22.7	16-36
2.36	38	412	85.1	14.9	4-19
0.3	36	448	92.6	7.4	2-10
0.075	25	473	97.7	2.3	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 483.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	41	41	8.5	91.5	90-100
13.2	151	192	39.7	60.3	56-88
4.75	160	352	72.8	27.2	16-36
2.36	50	402	83.1	16.9	4-19
0.3	45	447	92.5	7.5	2-10
0.075	20	467	96.6	3.4	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2023-03-24-01**	**Date: 25-03-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	24-03-23	
Type of Mix	:	BM (Bituminous Macadam) Dasarahalli Extension	
Date of test	:	24-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484	485
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	3.6	3.40
7	Average percentage	%	3.50	

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Lab ID : CP-2023-03-24-01 **Date: 25-03-23**

Weight of Sample : 484 Grams

AFTER EXTRACTION(Trail-1)

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	159	197	40.7	59.3	56-88
4.75	160	357	73.8	26.2	16-36
2.36	50	407	84.1	15.9	4-19
0.3	38	445	91.9	8.1	2-10
0.075	19	464	95.9	4.1	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	43	43	8.9	91.1	90-100
13.2	148	191	39.4	60.6	56-88
4.75	167	358	73.8	26.2	16-36
2.36	55	413	85.2	14.8	4-19
0.3	41	454	93.6	6.4	2-10
0.075	21	475	97.9	2.1	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-03-25-01** **Date: 27-03-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-03-23

Type of Mix : BM (Bituminous Macadam) Shabari Nagar Ganesh Temple Road

Date of test : 25-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	485	484.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.4	3.50
7	Average percentage	%	3.45	

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Lab ID : CP-2023-03-25-01 **Date: 27-03-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	28	28	5.8	94.2	90-100
13.2	151	179	36.9	63.1	56-88
4.75	165	344	70.9	29.1	16-36
2.36	53	397	81.9	18.1	4-19
0.3	50	447	92.2	7.8	2-10
0.075	25	472	97.3	2.7	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	37	37	7.6	92.4	90-100
13.2	151	188	38.8	61.2	56-88
4.75	161	349	72.0	28.0	16-36
2.36	63	412	85.0	15.0	4-19
0.3	44	456	94.1	5.9	2-10
0.075	18	474	97.8	2.2	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-03-27-01** **Date: 28-03-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 27-03-23

Type of Mix : BM (Bituminous Macadam) Bharath nagar Julka Masjid Road

Date of test : 27-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	485	483.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.4	3.70
7	Average percentage	%	3.55	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Date: 28-03-23

Lab ID : CP-2023-03-27-01

AFTER EXTRACTION(Trail-1)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	37	37	7.6	92.4	90-100
13.2	158	195	40.2	59.8	56-88
4.75	152	347	71.5	28.5	16-36
2.36	50	397	81.9	18.1	4-19
0.3	47	444	91.5	8.5	2-10
0.075	30	474	97.7	2.3	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 483.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	148	186	38.5	61.5	56-88
4.75	154	340	70.3	29.7	16-36
2.36	57	397	82.1	17.9	4-19
0.3	53	450	93.1	6.9	2-10
0.075	17	467	96.6	3.4	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Date: 29-03-23

Lab ID	:	**CP-2023-03-28-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	28-03-23
Type of Mix	:	BM (Bituminous Macadam) Bharath Nagar Abubakar Masjid Road
Date of test	:	28-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484.5	485
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.5	3.40
7	Average percentage	%	3.45	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Quality Manager

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Date: 29-03-23

Lab ID : CP-2023-03-28-01

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	31	31	6.4	93.6	90-100
13.2	150	181	37.4	62.6	56-88
4.75	157	338	69.8	30.2	16-36
2.36	60	398	82.1	17.9	4-19
0.3	45	443	91.4	8.6	2-10
0.075	29	472	97.4	2.6	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	33	33	6.8	93.2	90-100
13.2	153	186	38.4	61.6	56-88
4.75	147	333	68.7	31.3	16-36
2.36	70	403	83.1	16.9	4-19
0.3	50	453	93.4	6.6	2-10
0.075	16	469	96.7	3.3	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-03-28-01** **Date: 29-03-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 28-03-23

Type of Mix : BM (Bituminous Macadam) Bharath Nagar 3rd Cross Road

Date of test : 28-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484	484
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.6	3.60
7	Average percentage	%	3.60	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Lab ID : CP-2023-03-28-01 **Date: 29-03-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	28	28	5.8	94.2	90-100
13.2	148	176	36.4	63.6	56-88
4.75	163	339	70.0	30.0	16-36
2.36	55	394	81.4	18.6	4-19
0.3	49	443	91.5	8.5	2-10
0.075	20	463	95.7	4.3	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	36	36	7.4	92.6	90-100
13.2	157	193	39.9	60.1	56-88
4.75	140	333	68.8	31.2	16-36
2.36	66	399	82.4	17.6	4-19
0.3	50	449	92.8	7.2	2-10
0.075	23	472	97.5	2.5	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-03-30-01** **Date: 31-03-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 30-03-23

Type of Mix : BC (Bituminous Concrete) Defence Layout-1st Stage 2nd Cross Road

Date of test : 30-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.40	5.50
7	Average percentage	%	5.45	

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Lab ID : CP-2023-03-30-01 **Date: 31-03-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.0	44.0	42-58
1.18	29	295	62.1	37.9	34-48
0.6	11	306	64.4	35.6	26-38
0.3	46	352	74.1	25.9	18-28
0.15	45	397	83.6	16.4	12-20
0.075	55	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.1	43.9	42-58
1.18	29	295	62.2	37.8	34-48
0.6	11	306	64.5	35.5	26-38
0.3	46	352	74.2	25.8	18-28
0.15	45	397	83.7	16.3	12-20
0.075	55	452	95.3	4.7	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-2023-03-30-01**	**Date: 31-03-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	30-03-23	
Type of Mix	:	BC (Bituminous Concrete) 2nd Stage Defence layout, Aruna Enclave Road	
Date of test	:	30-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.40
7	Average percentage	%	5.50	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Lab ID : **CP-2023-03-30-01** **Date: 31-03-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	70	78	16.5	83.5	70-88
4.75	100	178	37.6	62.4	53-71
2.36	86	264	55.7	44.3	42-58
1.18	34	298	62.9	37.1	34-48
0.6	15	313	66.0	34.0	26-38
0.3	54	367	77.4	22.6	18-28
0.15	41	408	86.1	13.9	12-20
0.075	40	448	94.5	5.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	66	76	16.0	84.0	70-88
4.75	114	190	40.0	60.0	53-71
2.36	70	260	54.7	45.3	42-58
1.18	20	280	58.9	41.1	34-48
0.6	22	302	63.6	36.4	26-38
0.3	44	346	72.8	27.2	18-28
0.15	48	394	82.9	17.1	12-20
0.075	50	444	93.5	6.5	4-10

* The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 03-04-23

Lab ID : **CP-2023-04-01-01**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-04-23

Type of Mix : BC (Bituminous Concrete) Dasarahalli Extension #37 DNR Residency

Date of test : 01-04-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	473.5	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.70	5.40
7	Average percentage	%	5.55	

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Lab ID : CP-2023-04-01-01

Date: 03-04-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	15	15	3.2	96.8	90-100
9.5	85	100	21.1	78.9	70-88
4.75	95	195	41.2	58.8	53-71
2.36	58	253	53.4	46.6	42-58
1.18	36	289	61.0	39.0	34-48
0.6	8	297	62.7	37.3	26-38
0.3	53	350	73.9	26.1	18-28
0.15	48	398	84.1	15.9	12-20
0.075	45	443	93.6	6.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	3	3	0.6	99.4	90-100
9.5	56	59	12.4	87.6	70-88
4.75	121	180	37.9	62.1	53-71
2.36	73	253	53.3	46.7	42-58
1.18	39	292	61.5	38.5	34-48
0.6	12	304	64.0	36.0	26-38
0.3	48	352	74.1	25.9	18-28
0.15	40	392	82.5	17.5	12-20
0.075	51	443	93.3	6.7	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-04-01-01** **Date: 03-04-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-04-23

Type of Mix : BC (Bituminous Concrete) Kaveri Layout-1st A Cross Road

Date of test : 01-04-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	473.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.50	5.70
7	Average percentage	%	5.60	

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Lab ID : CP-2023-04-01-01 **Date: 03-04-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	16	16	3.4	96.6	90-100
9.5	59	75	15.8	84.2	70-88
4.75	135	210	44.3	55.7	53-71
2.36	59	269	56.7	43.3	42-58
1.18	25	294	62.0	38.0	34-48
0.6	9	303	63.9	36.1	26-38
0.3	59	362	76.3	23.7	18-28
0.15	33	395	83.2	16.8	12-20
0.075	49	444	93.6	6.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	70	76	16.1	83.9	70-88
4.75	102	178	37.6	62.4	53-71
2.36	83	261	55.1	44.9	42-58
1.18	39	300	63.4	36.6	34-48
0.6	12	312	65.9	34.1	26-38
0.3	48	360	76.0	24.0	18-28
0.15	39	399	84.3	15.7	12-20
0.075	39	438	92.5	7.5	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-2023-04-05-01 **Date: 06-04-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 05-04-23

Type of Mix : BC (Bituminous Concrete) Kaveri Layout-1st Cross Road

Date of test : 05-04-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	473.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.40	5.70
7	Average percentage	%	5.55	

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Lab ID : CP-2023-04-05-01

Date: 06-04-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	18	18	3.8	96.2	90-100
9.5	55	73	15.4	84.6	70-88
4.75	134	207	43.6	56.4	53-71
2.36	58	265	55.8	44.2	42-58
1.18	22	287	60.4	39.6	34-48
0.6	11	298	62.7	37.3	26-38
0.3	62	360	75.8	24.2	18-28
0.15	38	398	83.8	16.2	12-20
0.075	52	450	94.7	5.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	19	19	4.0	96.0	90-100
9.5	52	71	15.0	85.0	70-88
4.75	135	206	43.5	56.5	53-71
2.36	59	265	56.0	44.0	42-58
1.18	21	286	60.4	39.6	34-48
0.6	12	298	62.9	37.1	26-38
0.3	65	363	76.7	23.3	18-28
0.15	42	405	85.5	14.5	12-20
0.075	45	450	95.0	5.0	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-04-05-01** **Date: 06-04-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 05-04-23

Type of Mix : BC (Bituminous Concrete) Kaveri Layout-#68 Ashrivad House Road

Date of test : 05-04-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.60	5.50
7	Average percentage	%	5.55	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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Lab ID : CP-2023-04-05-01 **Date: 06-04-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	77	87	18.4	81.6	70-88
4.75	98	185	39.0	61.0	53-71
2.36	72	257	54.2	45.8	42-58
1.18	38	295	62.2	37.8	34-48
0.6	22	317	66.9	33.1	26-38
0.3	54	371	78.3	21.7	18-28
0.15	35	406	85.7	14.3	12-20
0.075	25	431	90.9	9.1	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	13	13	2.7	97.3	90-100
9.5	72	85	17.9	82.1	70-88
4.75	95	180	37.9	62.1	53-71
2.36	87	267	56.3	43.7	42-58
1.18	31	298	62.8	37.2	34-48
0.6	29	327	68.9	31.1	26-38
0.3	52	379	79.9	20.1	18-28
0.15	28	407	85.8	14.2	12-20
0.075	25	432	91.0	9.0	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 02-05-23

Lab ID	:	CP-2023-04-29-01
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	29-04-23
Type of Mix	:	BC (Bituminous Concrete) Kaveri Layout- Main Road & Muneshwara Temple Road
Date of test	:	29-04-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.40	5.60
7	Average percentage	%	5.50	

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Lab ID : CP-2023-04-29-01 **Date: 02-05-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	11	11	2.3	97.7	90-100
9.5	78	89	18.7	81.3	70-88
4.75	101	190	40.0	60.0	53-71
2.36	79	269	56.6	43.4	42-58
1.18	31	300	63.2	36.8	34-48
0.6	23	323	68.0	32.0	26-38
0.3	55	378	79.6	20.4	18-28
0.15	28	406	85.5	14.5	12-20
0.075	25	431	90.7	9.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	12	12	2.5	97.5	90-100
9.5	70	82	17.3	82.7	70-88
4.75	92	174	36.7	63.3	53-71
2.36	91	265	55.9	44.1	42-58
1.18	35	300	63.3	36.7	34-48
0.6	38	338	71.3	28.7	26-38
0.3	35	373	78.7	21.3	18-28
0.15	34	407	85.9	14.1	12-20
0.075	22	429	90.5	9.5	4-10

* The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2023-05-03-01** **Date: 04-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 483 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	33	33	6.8	93.2	90-100
13.2	145	178	36.9	63.1	56-88
4.75	150	328	67.9	32.1	16-36
2.36	70	398	82.4	17.6	4-19
0.3	48	446	92.3	7.7	2-10
0.075	20	466	96.5	3.5	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	30	30	6.2	93.8	90-100
13.2	152	182	37.6	62.4	56-88
4.75	146	328	67.8	32.2	16-36
2.36	65	393	81.2	18.8	4-19
0.3	52	445	91.9	8.1	2-10
0.075	21	466	96.3	3.7	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-05-08-01** **Date: 09-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 08-05-23

Type of Mix : BM (Bituminous Macadam) Hegade Nagar- 8th Cross Road

Date of test : 08-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	483.5	484.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.7	3.50
7	Average percentage	%	3.60	

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Lab ID : **CP-2023-05-08-01** **Date: 09-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 483.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	40	40	8.3	91.7	90-100
13.2	148	188	38.9	61.1	56-88
4.75	156	344	71.1	28.9	16-36
2.36	63	407	84.2	15.8	4-19
0.3	41	448	92.7	7.3	2-10
0.075	25	473	97.8	2.2	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	36	36	7.4	92.6	90-100
13.2	156	192	39.6	60.4	56-88
4.75	141	333	68.7	31.3	16-36
2.36	70	403	83.2	16.8	4-19
0.3	50	453	93.5	6.5	2-10
0.075	19	472	97.4	2.6	0-8

* The results obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-05-12-01** **Date: 13-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 12-05-23

Type of Mix : BM (Bituminous Macadam) Hegade Nagar- 5th Cross Road

Date of test : 12-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484	484.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	3.6	3.50
7	Average percentage	%	3.55	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

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Lab ID : **CP-2023-05-12-01** **Date: 13-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	31	31	6.4	93.6	90-100
13.2	141	172	35.5	64.5	56-88
4.75	151	323	66.7	33.3	16-36
2.36	71	394	81.4	18.6	4-19
0.3	50	444	91.7	8.3	2-10
0.075	25	469	96.9	3.1	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	29	29	6.0	94.0	90-100
13.2	147	176	36.3	63.7	56-88
4.75	156	332	68.5	31.5	16-36
2.36	65	397	81.9	18.1	4-19
0.3	45	442	91.2	8.8	2-10
0.075	20	462	95.4	4.6	0-8

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Quality Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Date: 13-05-23

Lab ID	:	**CP-2023-05-12-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	12-05-23
Type of Mix	:	BM (Bituminous Macadam) Hegade Nagar- 6th Cross Road
Date of test	:	12-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484.5	485
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.5	3.40
7	Average percentage	%	3.45	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬಂಗಳೂರು-26

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Lab ID : **CP-2023-05-12-01** **Date: 13-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	34	34	7.0	93.0	90-100
13.2	138	172	35.5	64.5	56-88
4.75	149	321	66.3	33.7	16-36
2.36	81	402	83.0	17.0	4-19
0.3	45	447	92.3	7.7	2-10
0.075	20	467	96.4	3.6	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	33	33	6.8	93.2	90-100
13.2	149	182	37.5	62.5	56-88
4.75	155	337	69.5	30.5	16-36
2.36	63	400	82.5	17.5	4-19
0.3	47	447	92.2	7.8	2-10
0.075	19	466	96.1	3.9	0-8

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಜ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 18-05-23

Lab ID	:	**CP-2023-05-17-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	17-05-23
Type of Mix	:	BC (Bituminous Concrete) Hegade Nagar- 5th Cross Road
Date of test	:	17-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	473.5	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.70	5.60
7	Average percentage	%	5.65	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Lab ID : CP-2023-05-17-01 **Date: 18-05-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.3	37.7	34-48
0.6	11	306	64.6	35.4	26-38
0.3	46	352	74.3	25.7	18-28
0.15	45	397	83.8	16.2	12-20
0.075	55	452	95.5	4.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.1	43.9	42-58
1.18	29	295	62.2	37.8	34-48
0.6	11	306	64.6	35.4	26-38
0.3	46	352	74.3	25.7	18-28
0.15	45	397	83.8	16.2	12-20
0.075	50	447	94.3	5.7	4-10

* The results obtained are satisfactory as per standard requirements.

ಪ್ರಾಜೆಕ್ಟ್ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-05-17-01** **Date: 18-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 17-05-23

Type of Mix : BC (Bituminous Concrete) Hegade Nagar- 9th Cross Road

Date of test : 17-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.50	5.60
7	Average percentage	%	5.55	

ಪಥಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Quality Manager

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Lab ID : CP-2023-05-18-01 **Date: 19-05-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	13	13	2.7	97.3	90-100
9.5	80	93	19.6	80.4	70-88
4.75	117	210	44.3	55.7	53-71
2.36	60	270	56.9	43.1	42-58
1.18	36	306	64.5	35.5	34-48
0.6	20	326	68.7	31.3	26-38
0.3	35	361	76.1	23.9	18-28
0.15	32	393	82.8	17.2	12-20
0.075	50	443	93.4	6.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	91	108	22.8	77.2	70-88
4.75	110	218	46.0	54.0	53-71
2.36	45	263	55.5	44.5	42-58
1.18	40	303	64.0	36.0	34-48
0.6	19	322	68.0	32.0	26-38
0.3	48	370	78.1	21.9	18-28
0.15	35	405	85.5	14.5	12-20
0.075	28	433	91.4	8.6	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬಂಗಳೂರು-26

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-05-20-01** **Date: 22-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 20-05-23

Type of Mix : BC (Bituminous Concrete) Ganesh Temple Road Shabri Nagar

Date of test : 20-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.40
7	Average percentage	%	5.45	

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Lab ID : CP-2023-05-20-01 **Date: 22-05-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	77	94	19.8	80.2	70-88
4.75	117	211	44.5	55.5	53-71
2.36	57	268	56.5	43.5	42-58
1.18	31	299	63.0	37.0	34-48
0.6	26	325	68.5	31.5	26-38
0.3	28	353	74.4	25.6	18-28
0.15	41	394	83.0	17.0	12-20
0.075	55	449	94.6	5.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	18	18	3.8	96.2	90-100
9.5	90	108	22.7	77.3	70-88
4.75	99	207	43.6	56.4	53-71
2.36	55	262	55.2	44.8	42-58
1.18	38	300	63.2	36.8	34-48
0.6	26	326	68.6	31.4	26-38
0.3	50	376	79.2	20.8	18-28
0.15	34	410	86.3	13.7	12-20
0.075	28	438	92.2	7.8	4-10

* The results obtained are satisfactory as per standard requirements.

ಪರಶೀಲಕರು ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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K KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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Lab ID : CP-2023-05-23-01 **Date: 24-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	131	169	34.9	65.1	56-88
4.75	151	320	66.1	33.9	16-36
2.36	86	406	83.9	16.1	4-19
0.3	50	456	94.2	5.8	2-10
0.075	18	474	97.9	2.1	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	36	36	7.4	92.6	90-100
13.2	142	178	36.7	63.3	56-88
4.75	148	326	67.3	32.7	16-36
2.36	71	397	81.9	18.1	4-19
0.3	50	447	92.3	7.7	2-10
0.075	17	464	95.8	4.2	0-8

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-05-24-01** **Date: 25-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 24-05-23

Type of Mix : BC (Bituminous Concrete) Anjandri Layout- 1st main Road

Date of test : 24-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.40	5.60
7	Average percentage	%	5.50	

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Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Lab ID : CP-2023-05-24-01 **Date: 25-05-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	22	22	4.6	95.4	90-100
9.5	80	102	21.5	78.5	70-88
4.75	110	212	44.6	55.4	53-71
2.36	55	267	56.2	43.8	42-58
1.18	36	303	63.8	36.2	34-48
0.6	25	328	69.1	30.9	26-38
0.3	30	358	75.4	24.6	18-28
0.15	39	397	83.6	16.4	12-20
0.075	50	447	94.1	5.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	93	110	23.2	76.8	70-88
4.75	96	206	43.5	56.5	53-71
2.36	55	261	55.1	44.9	42-58
1.18	39	300	63.3	36.7	34-48
0.6	28	328	69.2	30.8	26-38
0.3	53	381	80.4	19.6	18-28
0.15	33	414	87.3	12.7	12-20
0.075	26	440	92.8	7.2	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-05-26-01** **Date: 27-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 26-05-23

Type of Mix : BM (Bituminous Macadam) Amar Jyothi Layout- 2nd Cross Road

Date of test : 26-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	485	484
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	3.4	3.60
7	Average percentage	%	3.50	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : CP-2023-05-26-01 **Date: 27-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	40	40	8.2	91.8	90-100
13.2	136	176	36.3	63.7	56-88
4.75	161	337	69.5	30.5	16-36
2.36	60	397	81.9	18.1	4-19
0.3	48	445	91.8	8.2	2-10
0.075	18	463	95.5	4.5	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	33	33	6.8	93.2	90-100
13.2	140	173	35.7	64.3	56-88
4.75	144	317	65.5	34.5	16-36
2.36	79	396	81.8	18.2	4-19
0.3	50	446	92.1	7.9	2-10
0.075	17	463	95.7	4.3	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-05-26-01** **Date: 27-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 26-05-23

Type of Mix : BC (Bituminous Concrete) Bharath Nagar- Abubakar Masjid Road

Date of test : 26-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	473.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.60	5.70
7	Average percentage	%	5.65	

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Lab ID : CP-2023-05-26-01 **Date: 27-05-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	22	22	4.6	95.4	90-100
9.5	80	102	21.5	78.5	70-88
4.75	100	202	42.6	57.4	53-71
2.36	50	252	53.2	46.8	42-58
1.18	36	288	60.8	39.2	34-48
0.6	27	315	66.5	33.5	26-38
0.3	36	351	74.1	25.9	18-28
0.15	41	392	82.7	17.3	12-20
0.075	55	447	94.3	5.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	20	20	4.2	95.8	90-100
9.5	93	113	23.9	76.1	70-88
4.75	98	211	44.6	55.4	53-71
2.36	62	273	57.7	42.3	42-58
1.18	38	311	65.7	34.3	34-48
0.6	32	343	72.4	27.6	26-38
0.3	30	373	78.8	21.2	18-28
0.15	28	401	84.7	15.3	12-20
0.075	38	439	92.7	7.3	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2023-05-29-01** **Date: 30-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 01 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 29-05-23

Type of Mix : BC (Bituminous Concrete) Bharath Nagar-KM Naveed Store Beside Road

Date of test : 29-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.50	5.40
7	Average percentage	%	5.45	

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Lab ID : **CP-2023-05-30-01** **Date: 31-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	134	172	35.5	64.5	56-88
4.75	157	329	68.0	32.0	16-36
2.36	65	394	81.4	18.6	4-19
0.3	46	440	90.9	9.1	2-10
0.075	20	460	95.0	5.0	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	30	30	6.2	93.8	90-100
13.2	138	168	34.7	65.3	56-88
4.75	146	314	64.8	35.2	16-36
2.36	80	394	81.3	18.7	4-19
0.3	51	445	91.8	8.2	2-10
0.075	18	463	95.6	4.4	0-8

* The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2023-06-01-01** **Date: 02-06-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	24	24	5.1	94.9	90-100
9.5	93	117	24.7	75.3	70-88
4.75	95	212	44.7	55.3	53-71
2.36	55	267	56.3	43.7	42-58
1.18	39	306	64.6	35.4	34-48
0.6	31	337	71.1	28.9	26-38
0.3	34	371	78.3	21.7	18-28
0.15	40	411	86.7	13.3	12-20
0.075	40	451	95.1	4.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	96	113	23.9	76.1	70-88
4.75	104	217	45.8	54.2	53-71
2.36	51	268	56.6	43.4	42-58
1.18	40	308	65.0	35.0	34-48
0.6	34	342	72.2	27.8	26-38
0.3	29	371	78.4	21.6	18-28
0.15	40	411	86.8	13.2	12-20
0.075	38	449	94.8	5.2	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಸ್ಟೇ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-೨೬

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Quality Manager

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2023-04-01-01** **Date: 03-04-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-04-23

Type of Mix : Tack coat

Date of test : 01-04-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.256
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2023-05-18-01** **Date: 19-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 18-05-23

Type of Mix : Tack coat

Date of test : 18-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.278
7	Average	Kg/sq.m	0.278	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Authorized Signatory
Quality Manager

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2023-05-20-01** **Date: 22-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 20-05-23

Type of Mix : Tack coat

Date of test : 20-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.256
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2023-05-24-01** **Date: 25-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 24-05-23

Type of Mix : Tack coat

Date of test : 24-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.267
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬಂಗಳೂರು-26

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2023-05-26-01** **Date: 27-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 26-05-23

Type of Mix : Tack coat

Date of test : 26-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.278
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2023-05-27-01** **Date: 29-05-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 27-05-23

Type of Mix : Tack coat

Date of test : 27-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.267
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಜಿ.ಬಿ.ಬಿ.ಎ, ಬೆಂಗಳೂರು-24

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2023-06-01-01** **Date: 02-06-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-06-23

Type of Mix : Tack coat

Date of test : 01-06-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.278
7	Average	Kg/sq.m	0.278	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಉಪ ವಿಭಾಗ
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